| ###################################### | 000000000 0000000000 0000000000 000 000 000 000 | RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR | RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR | | LLL LLL LLL LLL LLL LLL LLL LLL |
|--|---|--|--|------------|--|
| FFF | 00000000 | RRR RRR | RRR RRR | ††† ††† | |
| FFF | 00000000 | RRR RRR | RRR RRR | TTT | LLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL |

| FFFFFFFF FF FF FF FF FF FFFFFFF FF FF F | 000000 00 00 00 00 | RRRRRRRR RRRRRRRR RR RR RR RR RR RR RRRRRR | RRRRRRRR RR | | 000000 00 00 00 00 |
|--|--|--|--|--|--|
| | | \$ | | | |

F0

- entry point for FORTRAN WRITE INTERNAL 16-SEP-1984 00:05:28 VAX/VMS Macro V04-00 FORSWRITE_IO Table of Contents Page 56 88 136 HISTORY ; Detailed Current Edit History
DECLARATIONS
FORSWRITE_IO - WRITE INTERNAL OBJECT-FORMATTED ; Detailed Current Edit History (2) (3) (4)

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Ma -\$ 10 - entry point for FORTRAN WRITE INTERNAL 16-SEP-1984 00:05:28 VAX/VMS Macro V04-00 Page 1 (1)

.TITLE FORSWRITE_IO - entry point for FORTRAN WRITE INTERNAL OBJECT-FORMATT .IDENT /1-013/ File: FORWRITIO.MAR Edit: JAW1013

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: FACILITY: FORTRAN Support Library - user callable

ABSTRACT:

This module contains the entry point for the FORTRAN WRITE INTERNAL OBJECT-FORMATTED I/O statement. It is simply a call to FOR\$\$IO_BEG with bits in RO which describe the parameter list. FOR\$\$IO_BEG interprets the parameters.

MAINTENANCE NOTE:

The transfer vector (RTLVECTOR+ALLGBL) must have the following:

.TRANSFER FORSWRITE 10
.MASK FORSSIO_BEG
BRW FORSWRITE_10+2

This puts the correct mask in entry vector, that is FOR\$\$10_BEG entry mask. Furthermore this module must only use RO and R1 since any other register might not be in the entry mask for FOR\$\$10_BEG.

ENVIRONMENT: User access mode; mixture of AST level or not

AUTHOR: Richard B. Grove, CREATION DATE: 28-May-78

MODIFIED BY: T. Hastings, 29-July-78

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```

EQUATED SYMBOLS:

NONE

OWN STORAGE:

```
- entry point for FORTRAN WRITE INTERNAL 16-SEP-1984 00:05:28 VAX/VMS Macro V04-00 FORSWRITE_10 - WRITE INTERNAL OBJECT-FOR 6-SEP-1984 11:02:04 [FORRIL.SRC]FORWRITIO.MAR;1
FORSURITE_IO
                                                                                                                                                                                                        (4)
                                                                                       .SBTTL FORSWRITE_IO - WRITE INTERNAL OBJECT-FORMATTED
                                                                          FUNCTIONAL DESCRIPTION:
                                                                                      Initialize the FORTRAN I/O system to perform a WRITE INTERNAL OBJECT-FORMATTED I/O statement.
                                                                             CALLING SEQUENCE:
                                                                                      CALL FORSWRITE_IO (user_vbl.rt.dx, format_adr.rt.r
[, err_adr.j.r [, end_adr.j.r]])
                                                                             INPUT PARAMETERS:
                                                                                      user_vbl.rt.dx
format_adr.rt.r
[err_adr.j.r]
[end_adr.j.r]
                                                                                                                           User's string variable format string (needs compilation) optional ERR= address
                                                                                                                            optional END= address
                                                                             IMPLICIT INPUTS:
                                                                                       NONE except those used by FOR$$10_BEG.
                                                                             OUTPUT PARAMETERS:
                                                                    160
161
162
163
164
165
166
                                                                                       NONE
                                                                             IMPLICIT OUTPUTS:
                                                                                       NONE except those left by FOR$$10_BEG.
                                                                    168
169
170
171
                                                                             COMPLETION CODES:
                                                                                       NONE
                                                                             SIDE EFFECTS:
                                                                                       NONE except those of FOR$$10_BEG.
                                                                     176
177
                                                                                                   .MASK FOR$$10 BEG
#ISB$K ST TY WIF+
<1@FOR$V OBJ FMT>, RO
G^FOR$$10_BEG+2
                                                                          FORSWRITE 10:: MOVZWL
```

: Statement type : branch past call mask

.END

0111 8F

17

00000002 GF

```
- entry point for FORTRAN WRITE INTERNAL 16-SEP-1984 00:05:28 6-SEP-1984 11:02:04
                                                                                                                                                 VAX/VMS Macro V04-00
[FORRTL.SRC]FORWRITIO.MAR;1
 FORSWRITE_10
 Symbol table
FORSSFMT COMPIL
FORSSIO BEG
FORSSREC WIFO
FORSSREC WIFF
FORSSUDF WFO
FORSSUDF WFO
FORSSUDF WFF
FORSSUDF WFF
FORSWORD FMT
FORSWRITE TO
ISBSK_ST_TY_WIF
                                                   *******
                                                                          ******
                                                   *******
                                                   *******
                                                   *******
                                                   *******
                                                   *******
                                                   ******
                                                  00000008
00000000 RG
                                                                          01
                                                = 00000011
                                                                          +----+
                                                                             Psect synopsis
PSECT name
                                                                                                Attributes
                                                 Allocation
                                                                                PSECT No.
                                                                                         0.)
     ABS
                                                 00000000
                                                                                                                      CON
                                                                                                                                        LCL NOSHR NOEXE NORD
                                                                                                                               ABS
                                                                                                                                                                          NOWRT NOVEC BYTE
 FORSCODE
                                                 QQQQQQQQ
                                                                                                   PIC
                                                                                                             USR
                                                                                                                      CON
                                                                                                                                                  SHR
                                                                                                                                                           EXE
                                                                                                                                                                    RD
                                                                                                                                                                          NOWRT NOVEC LONG
                                                                        Performance indicators
                                       Page faults
Phase
                                                              CPU Time
                                                                                     Elapsed Time
 ----
                                                 132
125
                                                              00:00:00.08
                                                                                     00:00:01.72
 Initialization
                                                                                    00:00:02.66
00:00:04.05
00:00:00.39
00:00:01.55
                                                             00:00:00.61
00:00:01.27
00:00:00.20
00:00:00.47
 Command processing
Pass 1
                                                   46
Symbol table sort
Pass 2
                                                             00:00:00.02
                                                                                     00:00:00.02
Symbol table output
                                                                                     00:00:00.03
Psect synopsis output
                                                                                     00:00:00.00
                                                              00:00:00.00
 Cross-reference output
                                                              00:00:02.68
Assembler run totals
                                                                                     00:00:10.43
The working set limit was 1050 pages.
6727 bytes (14 pages) of virtual memory were used to buffer the intermediate code.
There were 20 pages of symbol table space allocated to hold 188 non-local and 0 local symbols.
184 source lines were read in Pass 1, producing 8 object records in Pass 2.
9 pages of virtual memory were used to define 2 macros.
                                                                    Macro library statistics !
                                                                     ------
Macro Library name
                                                                     Macros defined
-$255$DUA28:[FORRTL.OBJ]FORRTL.MLB;1
-$255$DUA28:[SYSLIB]STARLET.MLB;2
TOTALS (all libraries)
                                                                                      202
```

183 GETS were required to define 2 macros.

There were no errors, warnings or information messages.

FC

- entry point for FORTRAN WRITE INTERNAL 16-SEP-1984 00:05:28 VAX/VMS Macro V04-00 6-SEP-1984 11:02:04 [FORRTL.SRC]FORWRITIO.MAR;1 FORSWRITE 10 VAX-11 Macro Run Statistics MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL, TRACEBACK)/LIS=LIS\$: FORWRITIO/OBJ=OBJ\$: FORWRITIO MSRC\$: FORWRITIO/UPDATE=(ENH\$: FORWRITIO)+LI 0185 AH-BT13A-SE

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